

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

12/02/2010

Nicholas Brandt  
Assistant District Attorney, Suffolk County

Dear ADA Brandt,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED] Included are copies of the following:

1. Drug Analysis Laboratory Receipt.
2. Curriculum Vitae for Annie Khan & Kate Corbett.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Khan (Dookhan) was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Khan".

Annie Khan (Dookhan)  
Chemist II  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6631  
[Annie.Khan@state.ma.us](mailto:Annie.Khan@state.ma.us)

**PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION**

*The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
State Laboratory Institute*

**Boston Drug Laboratory**  
Tel (617) 983-6622  
Fax (617) 983-6625

**Amherst Drug Laboratory**  
Tel (413) 545-2601  
Fax (413) 545-2608

## Boston Hours

8:00 – 11:00

**Amherst Hours**  
9:00 – 12:00  
1:00 – 3:00

## **DRUG RECEIPT**

**City or Department:**

**Police Reference No.:**

Name and Rank of Submitting Officer: 1st Edward Gandy W. Brewster

**Defendant(s) Name (last, first, initial):**

*To be completed by Submitter*

**Description of Items Submitted**

*To be completed by Lab Personnel*

Received by:

Date: 3-9-10

## Curriculum Vitae

### Annie Khan (Dookhan)

#### **Education:**

University of Massachusetts, Boston, Ma, Master of Science in Chemistry  
University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry

#### **Experience:**

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

\*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

\*Appointed Assistant Analyst by Assistant Commissioner of Public Health, January 2004.

\*Responsible for the identification of drugs to determine violations of harmful and narcotic drug laws.

\*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

\*Maintenance and repairs of analytical instruments.

\*Maintain the Quality Control of analytical instruments and controls/standards.

\* Maintain the Quality Control/Quality Assurance program for the drug lab.

\*Notary Public

\*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

\*Completed proficiency training conducted by a member of the staff within the Massachusetts Biologic Laboratory, Quality Control and Quality Assurance Department.

\*Routine QC testing of products for the FDA.

\*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

\*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

\*Writing, revising and reviewing Standard Operating Procedures (SOPs).

\*Complete testing of chemicals for Vendor Validation Project for the FDA.

\*Method Development for creating new techniques for the QC Department.

\*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

#### **Additional Training:**

Dept of Justice – Forensics Professionals

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with Massachusetts Biologic Laboratory and Sievers.

#### **Association:**

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

# Curriculum Vitae

Kate A. Corbett

## Education

### **Bachelor of Science Degree, CHEMISTRY May 2003**

MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

---

## Employment

### **Chemist II State Laboratory Institute (March 2008-Present)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

### **Chemist I State Laboratory Institute (2005-March 2008)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005

### **Research Associate (September 2003 – August 2005)**

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

### **Intern (March 2003 – August 2003)**

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units

No. [REDACTED]

Date Analyzed:

7/14/10

City: Chelsea Police Dept.

Officer: Detective BRIZUELA

Def: [REDACTED]

Amount:

Subst: SUB

No. Cont: 3 Cont: pb

Date Rec'd: 03/09/2010

No. Analyzed:

Gross Wt.: 21.07

Net Weight: 8.41

# Tests: 18<sup>AN</sup>

Prelim: Cocaine

Findings:

D. L. CAC  
Cocaine

# DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Chelsea ANALYST ASN

No. of samples tested: \_\_\_\_\_ Evidence Wt: \_\_\_\_\_

PHYSICAL DESCRIPTION: Gross Wt ( 3): 8-8691

white powdered & chunky  
substance in 3 pss

Gross Wt ( ): \_\_\_\_\_

Pkg. Wt: \_\_\_\_\_

Net Wt: \_\_\_\_\_

## PRELIMINARY TESTS

### Spot Tests

- Cobalt  
3 Thiocyanate (+)  
3 Marquis —  
3 Froehde's —  
3 Mecke's —

### Microcrystalline Tests

- Gold  
Chloride +  
3 TLTA (+)

### OTHER TESTS

- —  
—

## PRELIMINARY TEST RESULTS

RESULTS Cocaine

DATE 7-6-10

## GC/MS CONFIRMATORY TEST

RESULTS cocaine

MS OPERATOR KAC

DATE 7-14-10

Sample #: \_\_\_\_\_

# samples tested: \_\_\_\_\_

#	Gross Weight	Packet Weight	Net Weight	#	Gross Weight	Packet Weight	Net Weight
1	1.5955	0.1243	1.4712	26			
2	3.6269	0.1710	3.4559	27			
3	3.6493	0.1602	3.4891	28			
4				29			
5				30			
6				31			
7				32			
8				33			
9				34			
10				35			
11				36			
12				37			
13				38			
14				39			
15				40			
16				41			
17				42			
18				43			
19				44			
20				45			
21				46			
22				47			
23				48			
24				49			
25				50			

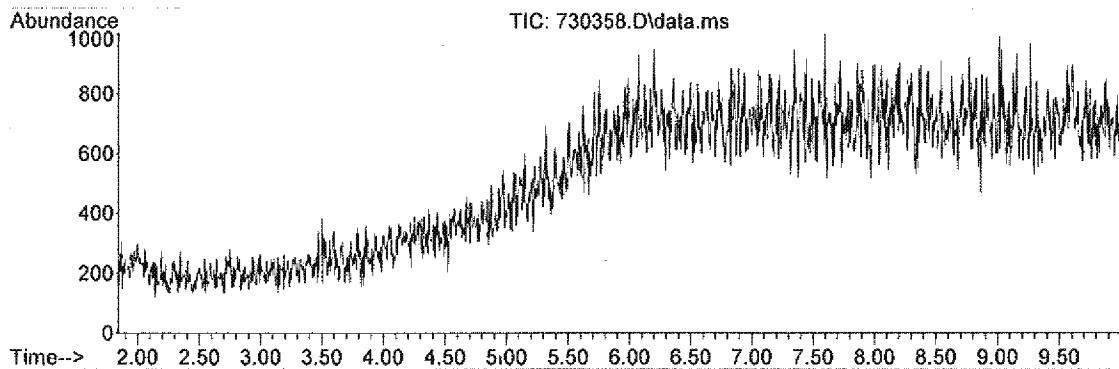
Calculations: Net wt

Net wt 8.4162

✓KAC  
11/30/10

## Information from Data File:

File Name : F:\Q3-2010\System7\07\_12\_10\730358.D  
Operator : KAC  
Date Acquired : 12 Jul 2010 23:43  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
-----------	------	--------	---------

\*\*\*NO INTEGRATED PEAKS\*\*\*

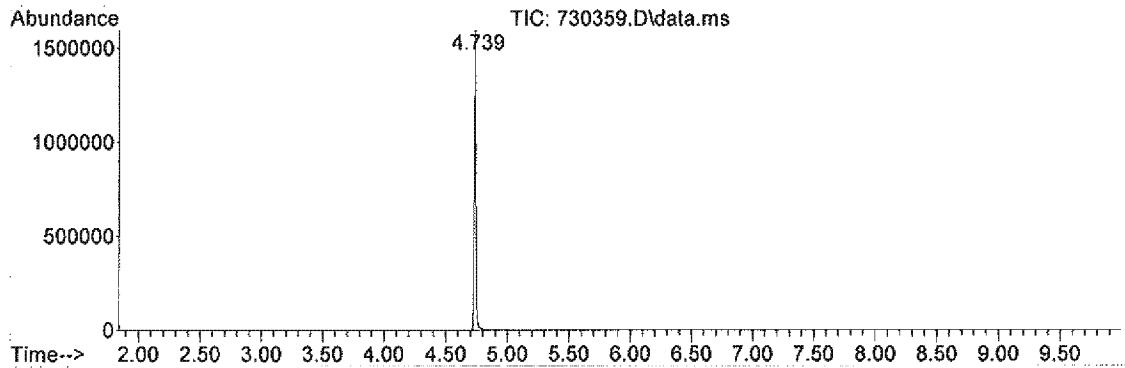
Area Percent / Library Search Report

---

Information from Data File:

File Name : F:\Q3-2010\System7\07\_12\_10\730359.D  
Operator : KAC  
Date Acquired : 12 Jul 2010 23:56  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 59  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
4.739	1360486	100.00	100.00

---

Area Percent / Library Search Report

---

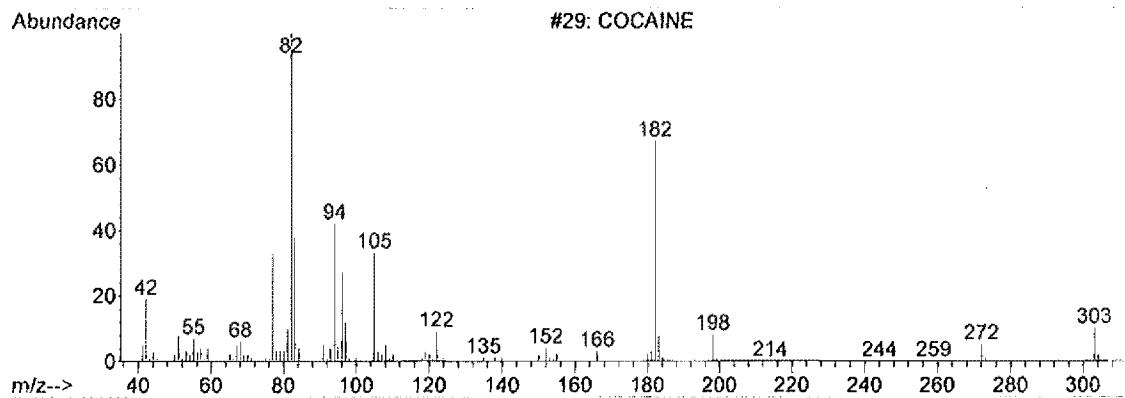
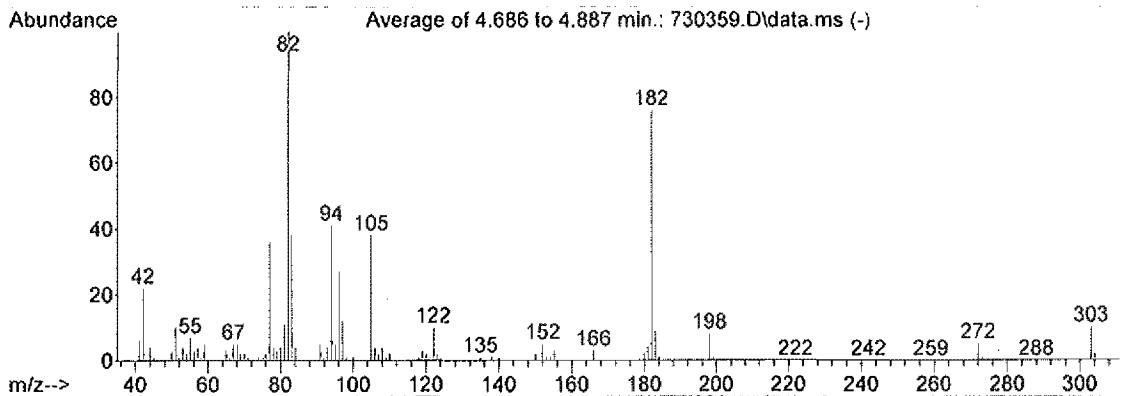
Information from Data File:

File Name : F:\Q3-2010\System7\07\_12\_10\730359.D  
Operator : KAC  
Date Acquired : 12 Jul 2010 23:56  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 59  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

---

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.74	C:\Database\SLI.L COCAINE	000050-36-2	99



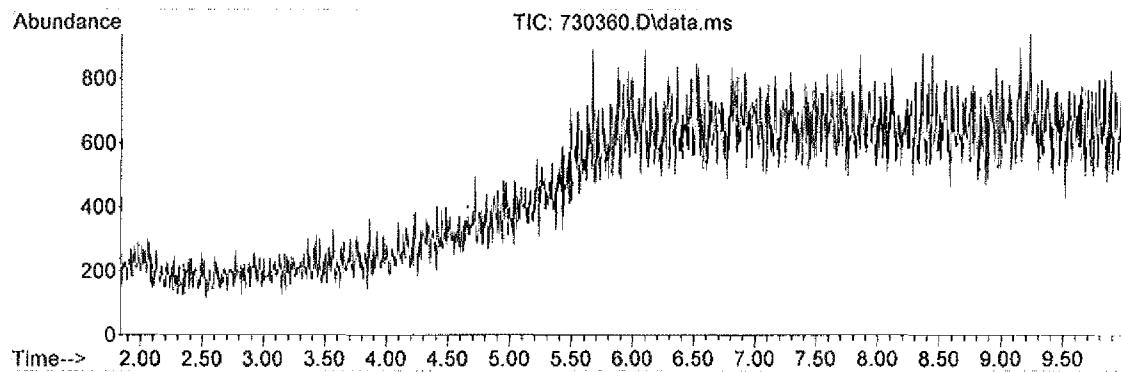
Area Percent / Library Search Report

---

Information from Data File:

File Name : F:\Q3-2010\System7\07\_12\_10\730360.D  
Operator : KAC  
Date Acquired : 13 Jul 2010 00:08  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
-----------	------	--------	---------

---

\*\*\*NO INTEGRATED PEAKS\*\*\*

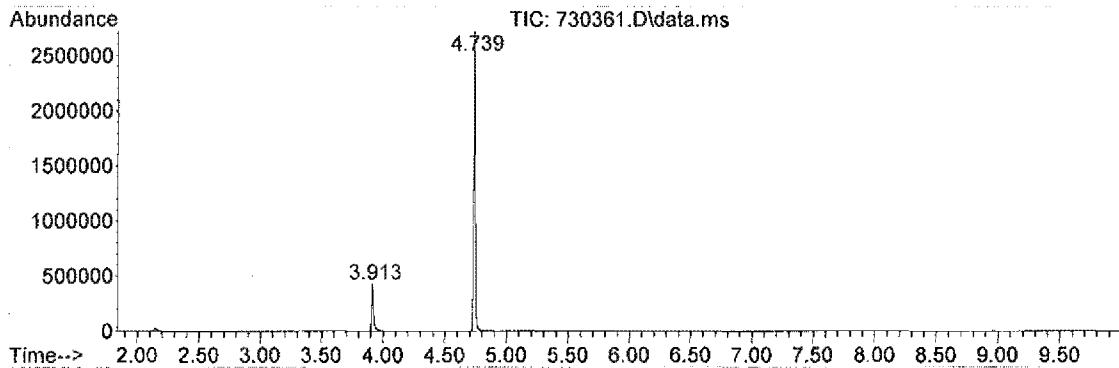
Area Percent / Library Search Report

---

Information from Data File:

File Name : F:\Q3-2010\System7\07\_12\_10\730361.D  
Operator : KAC  
Date Acquired : 13 Jul 2010 00:21  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 61  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
-----------	------	--------	---------

---

3.913	491483	16.54	19.82
4.739	2480066	83.46	100.00

---

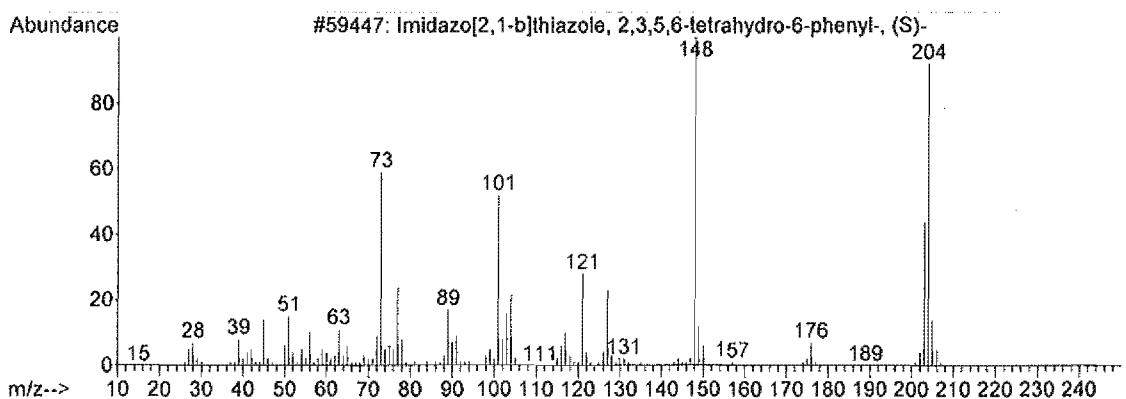
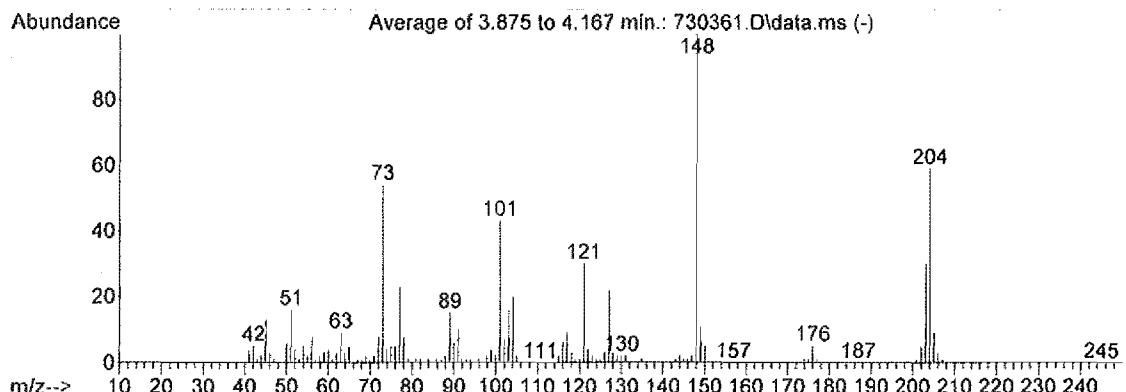
## Area Percent / Library Search Report

## Information from Data File:

File Name : F:\Q3-2010\System7\07\_12\_10\730361.D  
Operator : KAC  
Date Acquired : 13 Jul 2010 00:21  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 61  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.91	C:\Database\NIST05a.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98

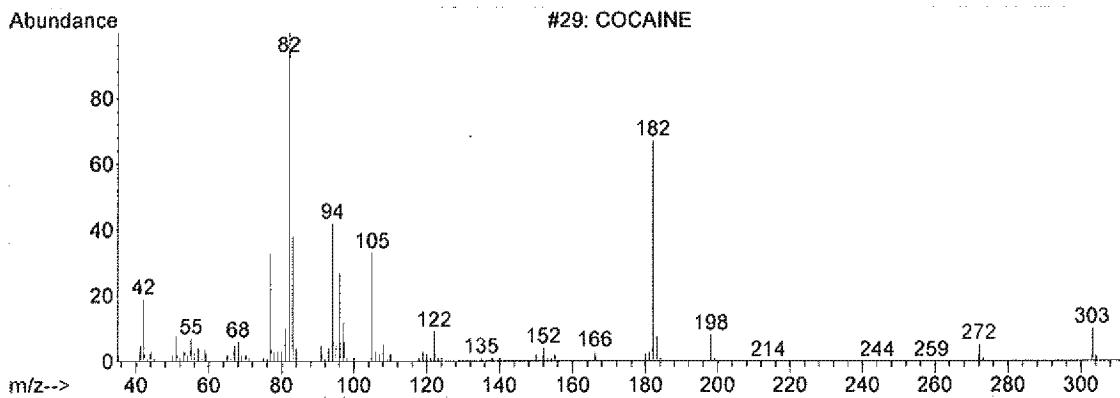
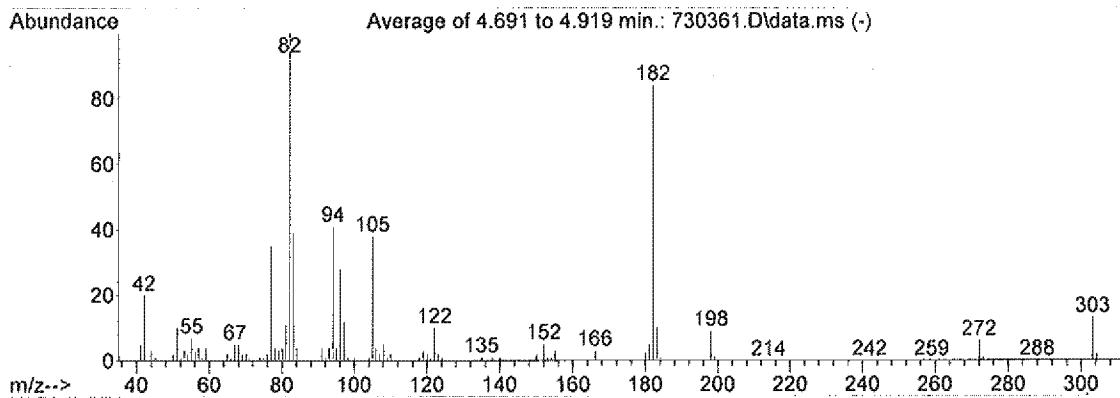


## Information from Data File:

File Name : F:\Q3-2010\System7\07\_12\_10\730361.D  
Operator : KAC  
Date Acquired : 13 Jul 2010 00:21  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 61  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	4.74	C:\Database\SLI.L COCAINE	000050-36-2	99



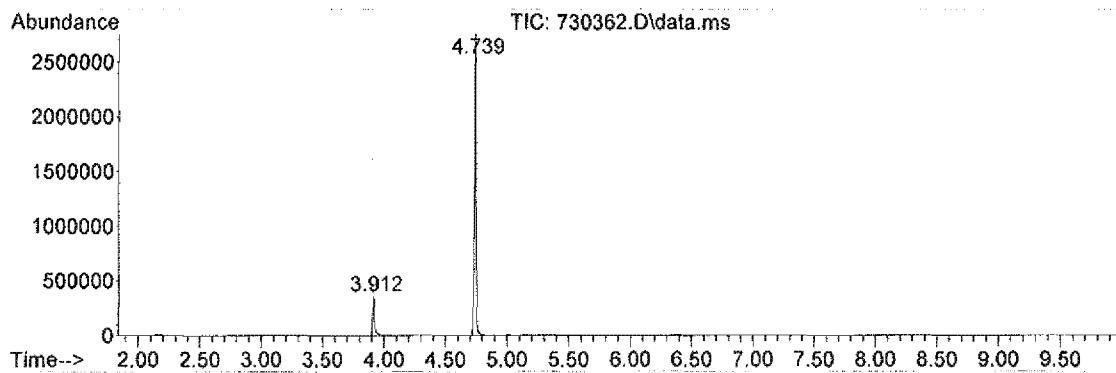
Area Percent / Library Search Report

---

Information from Data File:

File Name : F:\Q3-2010\System7\07\_12\_10\730362.D  
Operator : KAC  
Date Acquired : 13 Jul 2010 00:34  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 62  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

---



---

Ret. Time	Area	Area %	Ratio %
3.912	420036	13.80	16.01
4.739	2622896	86.20	100.00

---

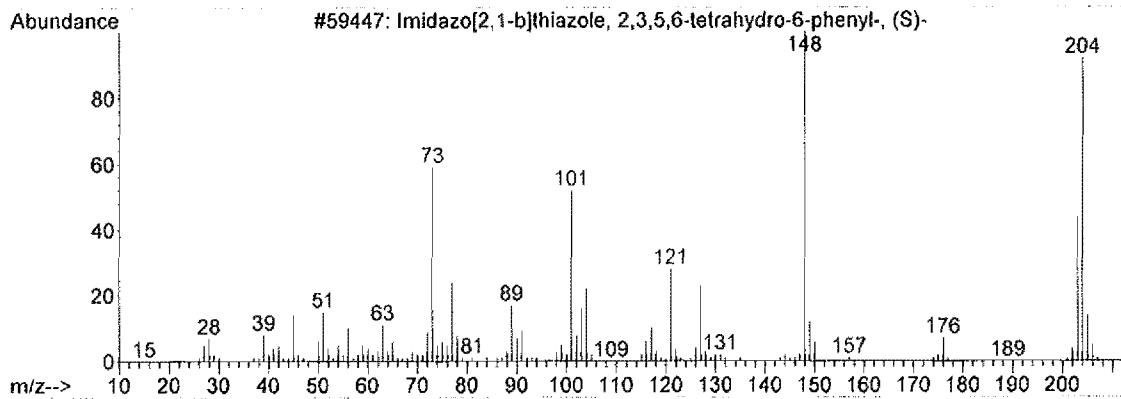
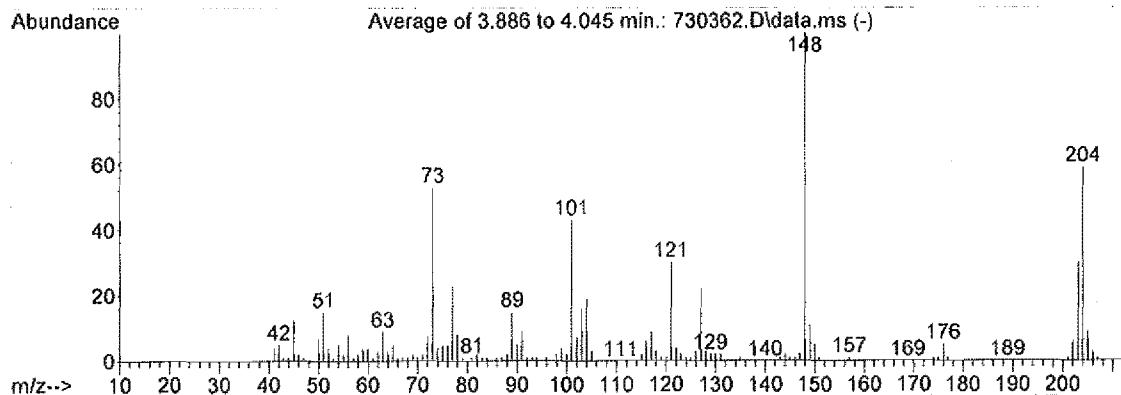
## Area Percent / Library Search Report

## Information from Data File:

File Name : F:\Q3-2010\System7\07\_12\_10\730362.D  
Operator : KAC  
Date Acquired : 13 Jul 2010 00:34  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 62  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.91	C:\Database\NIST05a.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98



Area Percent / Library Search Report

---

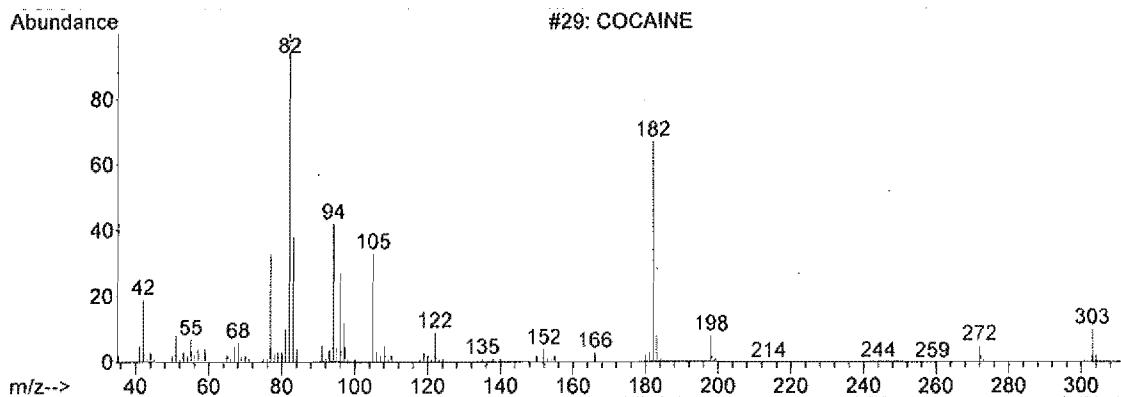
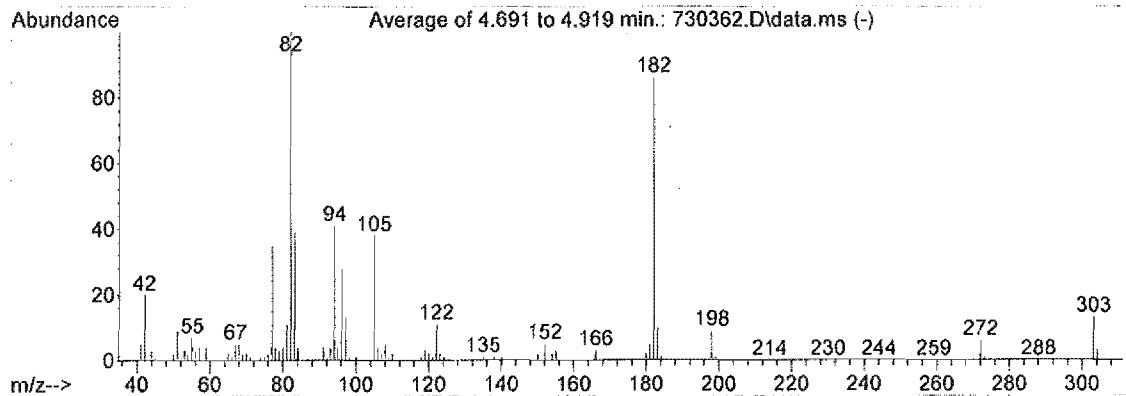
Information from Data File:

File Name : F:\Q3-2010\System7\07\_12\_10\730362.D  
Operator : KAC  
Date Acquired : 13 Jul 2010 00:34  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 62  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

---

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	4.74	C:\Database\SLI.L COCAINE	000050-36-2	99



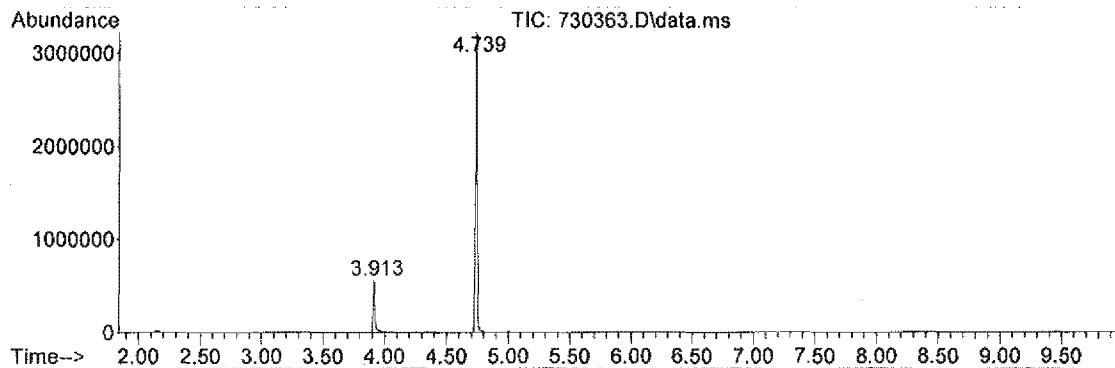
Area Percent / Library Search Report

---

Information from Data File:

File Name : F:\Q3-2010\System7\07\_12\_10\730363.D  
Operator : KAC  
Date Acquired : 13 Jul 2010 00:46  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 63  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
3.913	633700	16.20	19.33
4.739	3278548	83.80	100.00

---

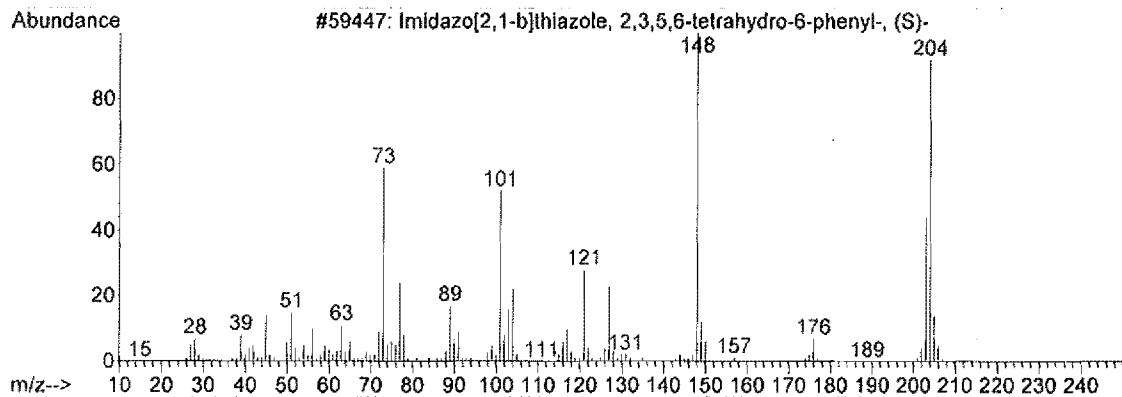
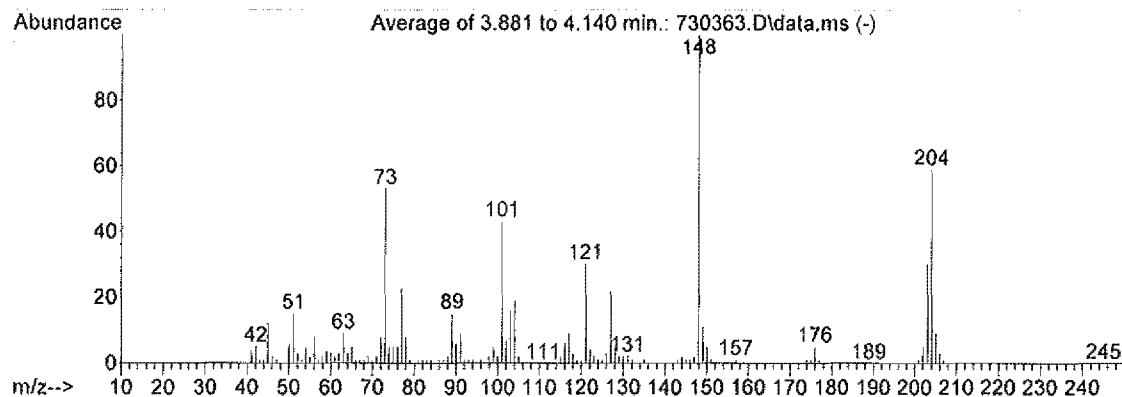
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\System7\07\_12\_10\730363.D  
 Operator : KAC  
 Date Acquired : 13 Jul 2010 00:46  
 Sample Name : XXXXXXXXXX  
 Submitted by : ASD  
 Vial Number : 63  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
 C:\Database\NIST05a.L Minimum Quality: 80  
 C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.91	C:\Database\NIST05a.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	99
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98



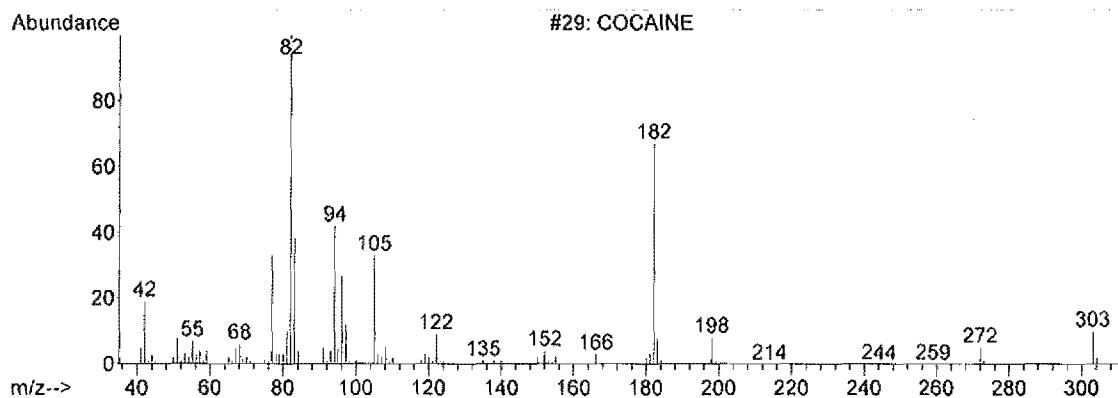
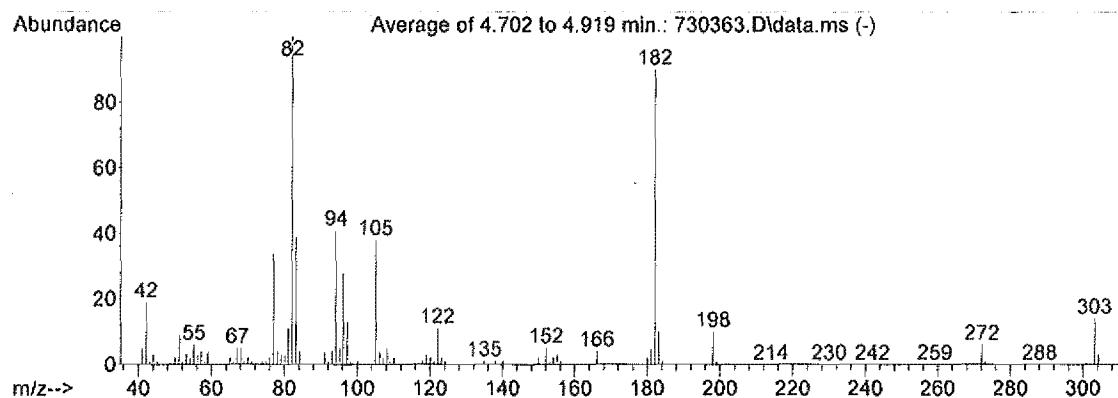
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\System7\07\_12\_10\730363.D  
Operator : KAC  
Date Acquired : 13 Jul 2010 00:46  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 63  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	4.74	C:\Database\SLI.L COCAINE	000050-36-2	99



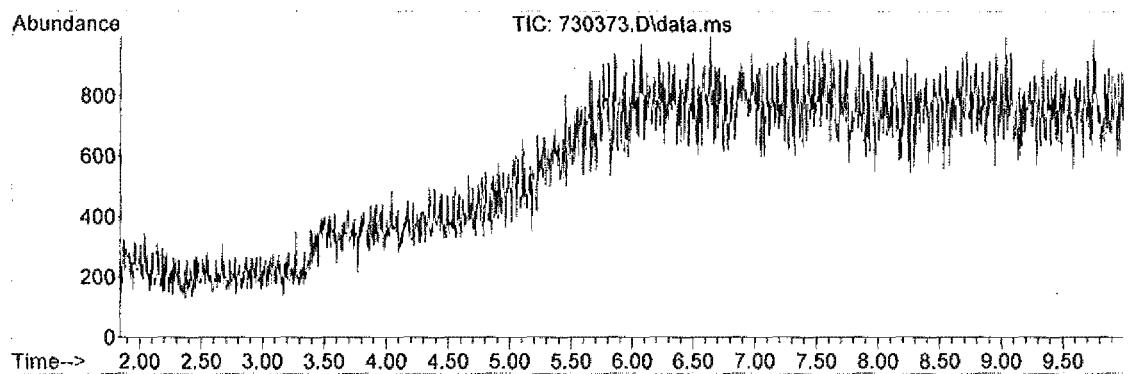
Area Percent / Library Search Report

---

Information from Data File:

File Name : F:\Q3-2010\System7\07\_12\_10\730373.D  
Operator : KAC  
Date Acquired : 13 Jul 2010 7:23  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
-----------	------	--------	---------

---

\*\*\*NO INTEGRATED PEAKS\*\*\*

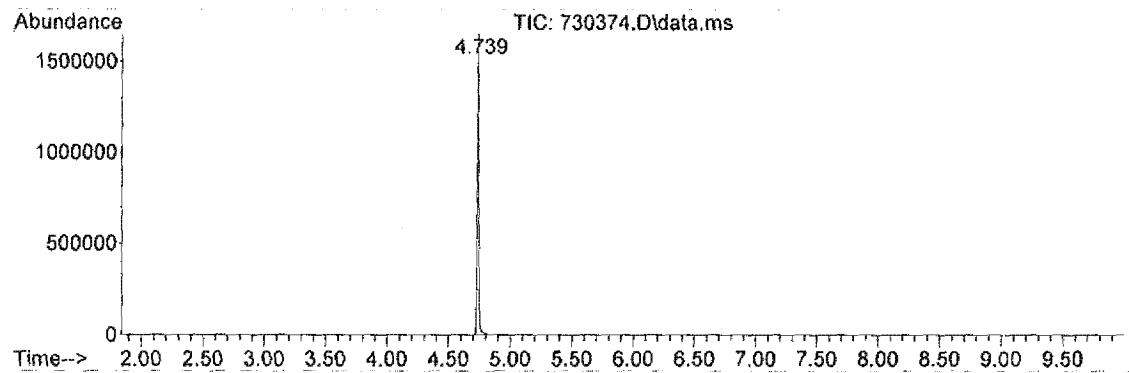
Area Percent / Library Search Report

---

Information from Data File:

File Name : F:\Q3-2010\System7\07\_12\_10\730374.D  
Operator : KAC  
Date Acquired : 13 Jul 2010 7:36  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 74  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
4.739	1375447	100.00	100.00

---

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q3-2010\System7\07\_12\_10\730374.D  
 Operator : KAC  
 Date Acquired : 13 Jul 2010 7:36  
 Sample Name : COCAINE STD  
 Submitted by :  
 Vial Number : 74  
 AcquisitionMeth: DRUGS.M  
 Integrator : RTE

Search Libraries:	C:\Database\SLI.L	Minimum Quality: 80
	C:\Database\NIST05a.L	Minimum Quality: 80
	C:\Database\PMW_TOX2.L	

PK#	RT	Library/ID	CAS#	Qual
1	4.74	C:\Database\SLI.L COCAINE	000050-36-2	99

